

Title (en)

METHOD AND DEVICE FOR MEASURING DISTANCE AND RELATIVE SPEED OF A PLURALITY OF OBJECTS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ABSTANDS- UND RELATIVGESCHWINDIGKEITSMESSUNG MEHRERER OBJEKTE

Title (fr)

PROCEDE ET DISPOSITIF DE MESURE DE DISTANCE ET DE VITESSE RELATIVE DE PLUSIEURS OBJETS

Publication

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Application

EP 06708607 A 20060302

Priority

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Abstract (en)

[origin: WO2006100167A1] The invention relates to a method and a device for measuring distance and relative speed of a plurality of objects by means of an FMCW radar. Transmission signals are emitted with temporarily linear ramp flanks and the receiving signals reflected on objects are received and mixed with the transmission signals. A combination of distance and relative speed values is associated with the mixer output frequencies of every frequency ramp for every object. The points of intersection of a plurality of distance and relative speed combinations is used to determine the distance and the relative speed of a possible object. Due to ambiguities, the possible objects can be dummy objects or real objects. The dummy objects due to ambiguities are eliminated randomly in the subsequent measuring cycle.

IPC 8 full level

G01S 13/34 (2006.01)

CPC (source: EP US)

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